

FIG. 1 CSG1

GCCAGGCAGCTGGCTGCCSACCAGCCCGTGTATGTGAAGGTCAAGGCTGAAGCCCGGAA  
A R Q L A A X Q A V Y V K V K A E A R E

CTGCTGGGCCACCCGTGGTCTCTGTGTCTCTGTGTGGTGCCAACTCACCACTTTTGAT  
L L G H P W S L C P V C G C Q L T T F D

GGGGCCCGTGGTGCCACCACTCTCTGGTGTCTATGAAGCTCTCTTCCCGCTGCCCAGGA  
G A R G A T T L L V S M K L S S R C P G

CTACAGAAATACCATCCCCCTGGTACCGTGTAGTTGCCGAAGTCCAGATCTGCCATGGCAAA  
L Q N T I P W Y R V V A E V Q I C H G K

ACGGAGGCTGTGGGCCAGGTCCACATCTTCTTCCAGGATGGATGGTGACGTGACTCCA  
T E A V G Q V H I F F Q D G M V T L T P

AACAAGGGTGTGTGGGTGAATGCTCCGAGTGGATCTCCCAGCTGAGAAGTTAGCATCT  
N K G V W V N G L R V D L P A E K L A S

GTGTCCGTGAGTCGTACACCTGATGGCTCCCTGCTAGTCCGCCAGAAAGCGGTCCAG  
V S V S R T P D G S L L V R Q K A G V Q  
GTGTGGCTTGGAGCCAATGGGAAGGTGGCTGTGATTGTGAGCAATGACCAATGCTGGGAAA  
V W L G A N G K V A V I V S N D H A G K

CTGTGTGGGGCCCTKTGGAAAATTGTACGGGGGACCAGACCAATGATGGGATGATTCCC  
L C G G L W K  
AGGAGAACCCAGCGATTGGGGAAWTGGAGAGCGCAGGACTTTCTYCCMCATGTTAATGG

GCTTGTCCAGTTCATCCCACCAGGAACGAAGGATTTT

FIG. 2A CSG2

CAGGACTGCGTGTCACGGACAAGGTGGACAACAACACCCTGCTCAACGTATCGCCTGC  
Q D C V C T D K V D N N T L L N V I A C

ACCCACGTGCCCTGCAACACCTCCTGACGCCCTGGGTTCGAACTCATGGAGGCCCCCGG  
T H V P C N T S C S P G F E L M E A P G

GAGTGCTGTAAGAAGTGTGAACAGACGCACTGTATCATCAACGGCCCGACAACCCAGCAC  
E C C K K C E Q T H C I I K R P D N Q H

GTCATCCTGAAGCCCGGGACTTCAAGAGCGACCCGGAAGAACAACACTGCACATTTCTTCAGC  
V I L K P G D F K S D P K N N C T F F S

TGCGTGAAGATCCACAACCAAGCTCATCTCGTCCGTTTCCAACATCACCTGCCCCAACTTT  
C V K I H N Q L I S S V S N I T C P N F

GATGCCAGCATTTGCATCCCGGGCTCCATCACATTCATGCCCAATGGATGCTGCAAGACC  
D A S I C I P G S I T F M P N G C C K T

TGCACCCCTCGCAATGAGACCAGGGTGCCCTGCTCCACCGTCCCGGTCAACCACGGAGGTT  
C T P R N E T R V P C S T V P V T T E V

TCGTACGCCGGCTGCACCAAGACCGTCCCTCATGAATCATTTGCTCCGGTCTCGGGACA  
S Y A G C T K T V L M N H C S G S C G T

FIG. 2B CSG2

TTTGTCACTACTCGGCCAAGGCCCTGGACCACAGCTGCTCCTGCTGCAAAGAG  
F V M Y S A K A Q A L D H S C S C C K E

GAGAAACCCAGCCGTGAGGTGCTCCTGAGCTGCCCAATGGCGGCTCGCTGACACAC  
E K T S Q R E V V L S C P N G G S L T H

ACCTACACCCACATCGAGAGCTGCCAGTGCCAGGACACCGTCTGCGGGCTCCCCACCGGC  
T Y T H I E S C Q C Q D T V C G L P T G

ACCTCCCGCCGGCGGTTCCCTAGGCATCTGGGAGCGGGTGAGCGGGGTGGGCA  
T S R R A R R S P R H L G S G

CAGCCCTTCACTGCCCTCGACAGCTTTACCTCCCCCGACCCCTCTGAGCCCTCCTAAGCT

CGGCTTCCTCTCTCAGATATTATTGTCTGAGTTTGTGTTTCAGTCCTTGCTTTCCAATA

ATAAACTCAGGGGACATGCAAAAAATAAAAAA

FIG. 3A CSG3

ATTGGTGCTACCTGGCTCTCCTGTCTGTGCAGCTCTACAGGTGAGGCCCCAGCAGAGGGAG  
TAGGGCTCGCCCATGTTTCTGGTGAGCCAAATTGGCTGATCTTGGGCTGTCTGAACAGCTAT  
TGGGTCCACCCAGTCCCTTTTCAGCTGCTGCTTAATGCCCTGCTCTCTCCCTGGCCCCACC  
TTATAGAGAGCCCCAAAGAGCTCCTGTAAAGAGGGAGAACTCTATCTGTGTTTATAATCTT  
GCACGAGCACCCAGAAAGTCTCCCTGGGTCTTGTGAATGAACATACATTATCCCCCTTTCCT  
GCCCCAACCAACTCTTTTCCTTCAAGAGGGCCTGCCCTGGTTCCCTCCACCCAACTGC  
ACCATGAGATCGGTCCAAAGAGTCCATTCCCCAGGTGGGAGCCAACTGTCAGGGAGGTCTT  
TCCCACCAACATCTTTCAGTTGCTGGGAGTGACCATAGGGCTCTGCTTTTAAAGATAT  
GGCTGCTTCAAGGCCAGAGTCACAGGAAGGACTCTTCCAGGGAGATTAGTGGTGATGG  
AGAGGAGAGTTAAAAATGACCTCATGTCCCTTCTTGTCACGGTMTTGTTGAGTMTTCACTC  
TTCTAATGCAAGGGTCTCACACTGTGAACCACTTAGGATGTGATCACTTTCAGGTGGCCA  
GGAATGTTGAATGTCCTTTGGCTCAGTTCACTCTAAAAAGATATCTATTGAAAGTTCTCA

FIG. 3B CSG3

GAGTGTACATATGTTTCACAGTACAGGATCTGTACATAAAAGTTTCTTTCCTAAACCAT  
TCACCAAGAGCCAAATATCTAGGCATTTCCTCGGTAGCACAAATTTTCTNATGCTTAGAA  
AATTGTCCCTCCCTGTTCTTTCTGTCTGNAGACTTAAGTGAGTTAGTCTTTTAAGGAAGC  
AACGCTCCCTCTGAAATGCTTGCTCTTTTCTGTGTGCCGAAATAGCTGCTCCTTTTTCGGG  
AGTTAGATGTATAGAGTGTTTGTATGTAAACATTTCTTGTAGGCATCACCATGAACANAG  
ATATATTTTCTATTTTANTTANTATATGTGCACCTTCAAGAAAGTCACCTGTCAGAGAAATAAA  
GAATTGTCTTAAATGTCATGATTGGAGATGTCCCTTTTGCCATTGCTTGGAGGGGTGTACCT  
AGAGCCAAGGAAATTGGCTCTGGTTTGGAAAAAATTTTGGCTGTTATTATAGTAAACATACA  
AAGGATGTC

FIG. 4 CSG4

ATGAGTCCTGTGAAACAATGTGGCAGAGGCCCTAAACATCGCCCTGGTGAATGGAACC  
M S P V K N N V G R G L N I A L V N G T

ACGGGAGCTGTGCTGGGACAGAAGGCATTGTACATGTACTCTGGAGATGTTATGCACCTA  
T G A V L G Q K A F D M Y S G D V M H L

GTGAAATTCCTTAAAGAAATTCGGGGGTGCACTGGTGCTGGTGGCCTCCTACGACGAT  
V K F L K E I P G G A L V L V A S Y D D

CCAGGGACCAAAATGAACGATGAAAGCAGGAAACTCTTCTCTGACTTGGGGAGTTCCTAC  
P G T K M N D E S R K L F S D L G S S Y

GCAAAACAACCTGGGCTTCGGGGACAGCTGGGTCTTTCATAGGAGCCAAAGACCTCAGGGGT  
A K Q L G F R D S W V F I G A K D L R G

AAAAGCCCCCTTTGAGCAGTTCTTAAAGAACAGCCCAGACACAACAATAACGAGGGATGG  
K S P F E Q F L K N S P D T N K Y E G W

CCAGAGCTGCTGGAGATGGAGGGCTGCATGCCCCCGAAGCCATTMTAGGGTGGCTGTGGC  
P E L L E M E G C M P P K P F

TCTTCCTCAGCCAGGGCCTGAAGAAGYTCCCTGCCCTTAGGAGTCANAGCCCCGGCAG

GCTGNAGGAGGAGCAGGGGGTGCTGCGTGGAAGGTGCTCAGGCCTTGCACGCTGTG

TCGCGCCT

FIG. 5A CSG6

TGCTCTACTCAAGGTATTTTCACAACCTTATGACACGAATGGTAGATACAGTGTAAGTGGCG  
V Y S R Y F T T Y D T N G R Y S V K V R

GGCTCTGGGAGGAGTTAACGCAGCCAGACGGAGAGTGATACCCCGACAGAGTGGAGCACT  
A L G G V N A A R R R V I P Q Q S G A L

GTACATACCTGGCTGGATTGAGAAATGATGAATAACAATCGAATCCACCAAGACCTGAAAT  
Y I P G W I E N D E I Q W N P P R P E I

TAATAAGGATGATGTTCAACACAAAGCAAGTGTGTTTCAGCAGAAACATCCTCGGAGGCTC  
N K D D V Q H K Q V C F S R T S S G G S

ATTTGTGGCTTCTGATGTCCCAAATGCTCCCATACCTGATCTCTTCCACCTGGCCAAAT  
F V A S D V P N A P I P D L F P P G Q I

CACCGACCTGAAGCGGGAATTACGGGGGCGAGTCTCATTAATCTGACTTGACAGCTCC  
T D L K A E I H G G S L I N L T W T A P

TGGGGATGATTATGACCATGGGAACAGCTCACAAAGTATATCATTCGAATAAGTACAAGTAT  
G D D Y D H G T A H K Y I I R I S T S I

TCTTGATCTCAGAGACAAGTTCAATGAATCTCTTCAAGTGAATACTACTGCTCTCATCCCC  
L D L R D K F N E S L Q V N T T A L I P

FIG. 5B CSG6

AAAGGAAGCCAACTCTGAGGAAGTCTTTTGTGTTAAACCAGAAACATTACTTTTGAAAA  
K E A N S E E V F L F K P E N I T F E N  
TGGCACAGATCTTTTCATTGCTATTTCAGGCTGTGATAGGTCGATCTGAAATCAGAAAT  
G T D L F I A I Q A V D K V D L K S E I  
ATCCAACATTGCACGAGTATCTTTGTGTTTATTCCTCCACAGACTCCGCCAGAGACACCTAG  
S N I A R V S L F I P P Q T P P E T P S  
TCCTGATGAAACGTCTGCTCCTTGTGCTTAATATTCATATCAACAGCACCATTTCCTGGCA  
P D E T S A P C  
TTCACATTTTAAAAATTATGTGGAAGTGGGTAGGAGAACTGCAGTTGTCATAGNCTAGG  
GGTGAATTTTGTGCGGTGAATAAATAATSATTTTCANCCCTTTTGTGRTTATATAAAAAA  
CGGNTNCCCATTTGGGNNTNTNGGGGGGNNTTTTAA



FIG. 6 CSG7

AGTCGCTCTCCTAGCCCTTCTCTGTGCCTCACCCCTCTGGCAATGCCATTTCAGGCCAGGTC  
V A L L A L L C A S P S G N A I Q A R S  
TTCCTCCTATAGTGAGAGTATGGAGGTGGTGGTGAAGCGATTCTCTCATTTCTGGCAA  
S S Y S G E Y G G G G K R F S H S G N  
CCAGTTGGACGGCCCCATCACCGCCCTCCGGTCCGAGTCAACACATACTACATCGTAGG  
Q L D G P I T A L R V R V N T Y Y I V G  
TCTTCAGGTGCGCTATGGCAAGGTGTGGAGCGACTATGTGGGTGGTCCGCAACGGAGACCT  
L Q V R Y G K V W S D Y V G G R N G D L  
GGAGGAGATCTTTCTGCACCCCTGGGAATCAGTGATCCAGGTTTCTGGGAAGTACAAGTG  
E E I F L H P G E S V I Q V S G K Y K W  
GTACCTGAAGAAGCTGGTATTGTGTACAGACAAGGGCCGCTATCTGTCTTTTGGGAAAGA  
Y L K K L V F V T D K G R Y L S F G K D  
CAGTGGCACAAAGTTTCAATGCCGTCCCCTTGCACCCCAACACCGTGCTCCGCTTCATCAG  
S G T S F N A V P L H P N T V L R F I S  
TGGCCGGTCTGTTCTCATCGATGCCATTGGCCTGCACTGGGATGTTTACCCCACTAG  
G R S G S L I D A I G L H W D V Y P T S  
CTGCAGCAGATGCTGAGCCTCCTCTCCTTGGCAGGGCACTGTGATGAGGAGTAAGAACT  
C S R

CCTTATCACTAACCCCATC

FIG. 7 CSG8

TAAACTTGCTGTTTGTTCCTGTGCTGTCTTGGTGGTATTTTCAGTAAGTTTMMGGT  
ATTCTCAAATTTTATCTAAATGGATAAACTATTAAACATAGAACATAAACCCCAATTCTCC  
ATTTCAATTTTCTCTTAGGCATGAATCATACAAACTCAATATAGAGCAATGTTTGTAAT  
GAATGTTCTATTAAACAAGAGGAGGTTCTAAGATATAAAGCCTCAGAGAACAGGAAGAA  
AAGCGGGTCCATAAGAAGATGAGTCTAACCGGGAAGATGCTGCTGAGAAAGGCAGAGAC  
AGATGTGGAGAGAAATCTATCACCCAGTCATGTGCCACTGAATGTTCCTCACTGAAGTGGCAGT  
TTACGACAAGGATGAAGTCTTTTCATTTTTTCAATGTTTTTAGCAAGCCATTCTCTAAACAGC  
CCAACTGGCATTTAATTACCCCAATACTGTATATAAGGCCAAATATGGACAGTTACTTTCCCT  
CTTGCCCTGTTCATATCCTTCAGTGACATTGAGGAAGCAGTGTTTCTCTTTTTTAAGGGGA  
ATAGTTGTCAACCTTTCATCTCTTACATCTTTACCCCTCTCCTTTTTTTTCTTTG  
ATTTTCCCCCTTATTGATGGGACTGATATTCAATCTGTTTTTGTGATGAACATTTTGGAAACT  
GTGGGGCTTTTTTATTAAAGCTCTGTAGAATTAAATGTTCTGGAATTAT

FIG. 8 CSG9

CAGGAGGAGAGCCTTCCCCAAGCAACAATCCAGAGCAGCTGTGCAACAACGGTGCCAT  
AAATAAGGCCTCCTGGACCATGAATCGAGTCCGCTGAGCTGCGTACCGAGCCCACGGT  
GGTCATGGCTGCCAGAGCGCTCTGCATGCTGGGGCTGCTCCTGGCCTTGCTGTCTCCAG  
M A A R A L C M L G L V L A L L S S S  
CTCTGCTAGGAGTACGTGGGCCTGTCTGCAAAACCAGTGTGCCGTGCCAGCCAAAGGACAG  
S A E E Y V G L S A N Q C A V P A K D R  
GGTGACTGCGGCTACCCCCATGTCACCCCCAAGGAGTGCAACAACCGGGCTGCTGCTT  
V D C G Y P H V T P K E C N N R G C C F  
TGA CTCCAGGATCCCTGGAGTGCCTTG GTGTTTCAAGCCCCCTGACAGGAAGCAGGAATG  
D S R I P G V P W C F K P L T G K Q E C  
CACCTTCTGAGGCACCTCCAGCTGCCCCCCCCGGGGGATGCCAGGCTCGGAGCACCCCT  
T F \*  
TGCCCCGGCTGTGATTGCTGCCAGGCACTGTTCATCTCAGCTTTTCTGTCCCTTGCTCCC  
GGAAGCGCTTCTGCTGAAGTTTCATATCTGAGCCTGATGTTTAACTAGTCCCCATGCTC  
CACCCGAAAAAATAAAAAAATAAAAAA

FIG. 9A CSG10

AAGCTCTTCTCACAGGACCAGCCACTAGCGCAGCTCGAGCGATGGCCTATGTCCCGGCAC  
M A Y V P A P

CGGGCTACCAGCCACCTACAACCCGACGCTGCCTTACTACAGCCCATCCCGCGGGGC  
G Y Q P T Y N P T L P Y Y Q P I P G G L

TCAACGTGGGAATGTCTGTATTACATCCAAGGAGTGCGCCAGCGAGCACATGAAGCGGTTCT  
N V G M S V Y I Q G V A S E H M K R F F

TCGTGAACCTTGTGTTGGCAGGATCCGGGGCTCAGACGTGCGCCTTCCACTTCAATCCGC  
V N F V V G Q D P G S D V A F H F N P R

GGTTGACGGCTGGGACAAGGTGCTCTTCAACACGTTGCCAGGGCGGAAGTGGGCGACGG  
F D G W D K V V F N T L Q G G K W G S E

AGGAGAGGAAGAGGAGCATGCCCTTCAAAAAGGGTCCCGCCTTTGAGCTGGTCTTCATAG  
E R K R S M P F K K G A A F E L V F I V

TCCTGGCTGAGCACTACAAGGTGGTAAATGGAATCCCTTCTATGATACGGGCACC  
L A E H Y K V V V N G N P F Y E Y G H R  
GGCTTCCCCCTACAGATGGTACCCACCTGCCAAGTGGATGGGATCTGCCAACTTCAATCAA  
L P L Q M V T H L Q Q V D G D L Q L Q S I

TCAACTTCATCGGAGCCAGCCCTCCGGCCCCAGGGACCCCCGATGATGCCACCTTACC  
N F I G G Q P L R P Q G P P M M P P Y P

FIG. 9B CSG10

CTGGTCCCGACATTGCCATCAACAGCTGAACAGCCTGCCCCACCATGGAAGGACCCCAA  
G P G H C H Q Q L N S L P T M E G P P T

CCTTCAACCCGCCTGTGCCATATTTCGGAGGCTGCCAAGGAGGGCTCACAGCTCGAAGAA  
F N P P V P Y F G R L Q G G L T A R R T

CCATCATCAAGGGCTATGTGCCCTCCACAGGCAAGAGCTTTGCTATCAACTTCAAGG  
I I I K G Y V P P T G K S F A I N F K V

TGGGCTCCTCAGGGGACATAGCTCTGCCACATTATCCCCGCATGGCAACGGTACCGTGG  
G S S G D I A L H I N P R M G N G T V V

TCCGGAACAGCCTTCTGAATGGCTCGTGGGATCCGAGAGAAGAATCACCCACAACC  
R N S L L N G S W G S E E K I T H N P

CATTGTGTCGCGACAGTTCTTTGATCTGTCCATTTCGCTGTGGCTTGGATCGCTTCAAGG  
F G P G Q F F D L S I R C G L D R F K V

TTTACGCCAATGGCCAGCACCTCTTTGACTTTTGCCCATCGCCCTCTCGGCCCTTCCAGAGG  
Y A N G Q H L F D F A H R L S A F Q R V

TGGACACATTGGAAATCCAGGGTGATGTCACCTTGTCCCTATGTCCAGATCTAATCTATTC  
D T L E I Q G D V T L S Y V Q I

CTGGGGCCATAACTCATGGGAAACAGAAATTATCCCCCTAGGACTCCTTTCTAAGCCCCCTA

ATAAAATGTCTGAGGGTGTCTCAAAAAAATAAAAAA

FIG. 10 CSG11

GTTGATATTAAACAGTAAACCAACATGACACCTCTCTGAAACCTATTAGTGTCTCC  
V D I K T S E T K H D T S L K P I S V S

TACAACCCAGCCACAGCCAAAGAAATTATCAATGTGGGGCATTCCCTTCCATGTAAATTTT  
Y N P A T A K E I I N V G H S F H V N F

GAGGACAACGATAACCGATCAGTGCTGAAGGTGTCCTTTCTCTGACAGCTACAGGCTC  
E D N D N R S V L K G G P F S D S Y R L

TTTCAGTTCCATTTCACCTGGGGCAGTACAAATGAGCATGGTTTCAGAACATACAGTGGAT  
F Q F H F H W G S T N E H G S E H T V D

GGAGTCAAATATTCTGCCGAGCTTCACGTGGCTCACTGGAATTCTGCAAGTACTCCAGC  
G V K Y S A E L H V A H W N S A K Y S S  
CTTGCTGAAGCTGCCCTCAAAGGCTGATGGTTTGGCAGTTATTGGTGTMTTGATGAAGGTT  
L A E A A S K A D G L A V I G V L M K V  
GGTGAGGCCAACCCAAAGCTGCAGAAAGTACTTGATGCCCTCCAAAGCAATTAAACCAAG  
G E A N P K L Q K V L D A L Q A I K T K  
GGCAAACGAGCCCCATTACACAAATTTTGACCCCTCTACTCTCCTTCCTTCATCCCTGGAT  
G K R A P F T N F D P S T L' L P S S L D

TTCTGGACCTACCCCTGCTCTGACTCATCCTCCTCTTTATGAGAGTGTAACTTGGATC  
F W T Y P G S L T H P P L Y E S V T W I  
ATCTGTAAAGGAGAGCATCAGTGTCACTTCAGAGCAGTTGGCACAAATTCGGAGCCTTCTA  
I C K E S I S V S S E Q L A Q F R S L L

TCAAT  
S

FIG. 11 CSG12

CGGCTCCGGCGGGCGTGGCCAGTCACTAGAGCGGAGGCCGCCGGACCATGGCGGGCGG  
G S G R A W P V T R R R G A A G P W R R R  
GGCGGACGAGCGGAGTCCAGAGCGGAGAGAGAGGAGGAGCAGTTGGTTCTCT  
R R T S G V Q R R E D E E E Q L V L  
GGTGGAAATTATCAGGAATTATTGATTCAGACTTCCTCTCAAAATGTGAAAATAAATGCAA  
V E L S G I I D S D F L S K C E N K C K  
GGTTTGGGCATTGACACTGAGAGGCCCATTCGCAATGGACAGCTGTGTCTTTGCTGG  
V L G I D T E R P I L A M D S C V F A G  
GGAGTATGAGACACTCTAGGACCTGTGTTATATTGAAGAAAATGTTGAACATGCTGA  
E Y E D T L G T C V I F E E N V E H A D  
TACAGAAGCAATAATAAACAGTGTCTAAATATAATGCCATACAATGAAGAAGCTCAG  
T E G N N K T V L K Y K C H T M K K L S  
CATGACAAGAACTCTCCTGACAGAGAAGGAAGAGAGAAACATAGGTGGGGTGGA  
M T R T L L T E K K E G E N I G G V E  
ATGGCTGCAATAAGGATATGTTTCTCCCTTTGACCCCAACAGGTTTGTTAACCTTTTCTA  
W L Q I R I W F L P L T Q Q V C  
CCATGAAATTGAGGACGAGGAAGTGGTAGCTTTCAGCCCCGTTAAATCTTTGGATTGGG  
AGGGGTGGGGTTTCAATG

FIG. 12 CSG13

GTGGCAGAAAGATAGGTTGGAGACAATTGATTGCTCGATGATATAAAATGTTAAGTA  
CCATGAATCNATGCTGTAGGCTGGAATGCGCCAAGATAAAAGGTGGGGCATGGCATCAA  
AAGGTAGGTCAACATATTAATAATTCCATGTATTGAAATATCCAGAAATATATAGACA  
GATCTATAGAGATAGAAACTGGTCTGCCCCAGGACTAGGGGTGCTTAAGGATAAGGAGCT  
TCTTTTGTGGATGGTGAAATAACCTAAATATATTGTGCCATTGTTTGCACTTTGTG  
GAATATATTAAACCGGTTAATTGTACTCACTAAAAATGTCCTCCTTCTTAAATTTAAGC  
TGTTTNTCTGACAAAGAAAGGAAAGNNACCAGGGGNAAAAAATTTT



FIG. 13 CSG14

GGCCCTGGGCTTTGGGGGGTCCCAACATGGTATGCAGAAATGTGATTACAGGTCAG  
TACAACCTCAGTCCTTAGAACCCCTCCACACTTCAGCTCTGCACCCACTTTCCTGTCAAT  
TATTTATATAGGACTGTAGTTTMTTGTAGTTCGAGAGCCCTTTCGAAGCTTAATTTATAT  
CTTCTTTGTACCTMTTCTCTAAATACCAAGATATTACACAAAGGTAATTAATGTT  
CTCTGTTTATGCTTTATCTGATGGAGGCAAAATATCCTCTTATTGTGATCAAGGGGGC  
AAAGAAATTAGAGGCAAAATGAACAAGCGATAGGCTATTGCAACCTGAGAAAGAGAACTG  
NTCCTTCCATCGTAAATTTAGNAGNCCAAGTAGGTAATGGGAACCAAGTTGTACTTTT  
TTCTAGTAGTTATTTTCCCTMTTNNNTTTTGTGTACCTCTTACAGNGNCCCAAACT  
CCATTCTCTTTAAAGGGGTTTTTATGGGGGCTTACTGCAGGTTAAAAATTGGGNCCAC  
CATTTTAAAGGGGGCTACCAGAGGGAGGGGTCCCCNTTNCNAAAAAAATG